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(57) Abstract: Substantially pure methylthioninium chloride pentahydrate form A is prepared from methylthioninium chloride by phase equilibration of suspensions, crystallization or solvent evaporation, whereby the water content of the solvent corresponds to a water activity of at least 0.4 at 25°C, and controlled drying of said methylthioninium chloride pentahydrate form A within its stability ranges of humidity, pressure and temperature.



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